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4731  
K-1436PD  
PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the application of:  
Mehrotra et al.

)  
)  
) GROUP ART UNIT 1731  
)  
) Examiner: Fiorilla, C.A.  
)  
)

Serial No. 10/033,051

Filed: October 25, 2001

For: PROCESS FOR HEAT TREATING  
CERAMICS AND ARTICLES OF  
MANUFACTURE MADE THEREBY

COMMISIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia

Sir:

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Applicants hereby submit the documents listed on the enclosed seven (7) pages of PTO/SB/08A(08-03), and request that the Examiner make these documents of record in the above case. For the Examiner's information, these documents were of record in the parent patent application (issued on August 26, 2003 as U.S. Patent No. 6,610,113 B1), but had not been cited in this divisional patent application.

By listing these documents, applicants do not admit that they are prior art to the invention of this patent application.

This Supplemental Information Disclosure Statement is being filed after the date of the mailing of the first Office action on the merits, but before the mailing of a final Office Action or a Notice of Allowance.

10/18/2003 NROCHAI 00000031 10033051

01 FC:1806

180.00 OP

In the application of: Mehrotra et al.  
Serial No. 10/033,051  
Filed: October 25, 2001  
SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT  
Page 2

Accompanying this paper is a check for the fee set forth in 37 CFR §1.17(p) in the amount of One Hundred Eighty Dollars (\$180.00). If any additional fees are necessary to enter this paper and make the listed documents of record, please charge the same to Deposit Account No. 02-2267. A duplicate of this paper is enclosed herewith.

If the Patent Examiner has any questions, applicant urges the Patent Examiner to contact the undersigned attorney (615-662-0100) or Mr. John J. Prizzi at (724) 539-5331.

Respectfully submitted,

Stephen T. Belsheim  
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Facsimile: 615-662-0352  
October 9, 2003



PTO/SB/08A (08-03)

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Sheet 1 -6 7

Sheet 1 of 7

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OCT 13 2003  
TC 1700

Sheet 1 of 7 Attorney Docket Number K-1436PD

**U. S. PATENT DOCUMENTS**

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
	US- 4,011,108		03/1977	Hellman et al.	
	US- 4,038,092		07/1977	Baumgartner et al.	
	US- 4,127,416		11/1978	Lumby et al.	
	US- 4,227,842		10/1980	Samanta et al.	
	US- 4,264,548		04/1981	Ezis	
	US- 4,264,550		04/1981	Ezis	
	US- 4,286,905		09/1981	Samanta	
	US- 4,296,065		10/1981	Ishii et al.	
	US- 4,388,085		06/1983	Sarin et al.	
	US- 4,401,617		08/1983	Ezis et al.	
	US- 4,406,667		09/1983	Sarin et al.	
	US- 4,406,668		09/1983	Sarin et al.	
	US- 4,409,003		10/1983	Sarin et al.	
	US- 4,409,004		10/1983	Sarin et al.	
	US- 4,416,670		11/1983	Sarin et al.	
	US- 4,421,525		12/1983	Sarin et al.	
	US- 4,431,431		02/1984	Sarin et al.	
	US- 4,433,979		02/1984	Sarin et al.	
	US- 4,434,238		02/1984	Ezis et al.	

**FOREIGN PATENT DOCUMENTS**

**Examiner Signature** \_\_\_\_\_ **Date Considered** \_\_\_\_\_

<sup>1</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>2</sup>Applicant's unique citation designation number (optional). <sup>3</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>4</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>5</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>6</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>7</sup>Applicant is to place a check mark here if English language Translation is attached.

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Sheet 2

of 7

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**TC 1700**

Application Number	10/033,051
Filing Date	October 25, 2001
First Named Inventor	Mehrotra et al.
Art Unit	1731
Examiner Name	Fiorilla, C.A.
Attorney Docket Number	K-1436PD

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		US- 4,440,547	04/1984	Sarin et al.	
		US- 4,440,707	04/1984	Shimamori et al.	
		US- 4,441,894	04/1984	Sarin et al.	
		US- 4,449,989	05/1984	Sarin et al.	
		US- 4,497,228	02/1985	Sarin et al.	
		US- 4,563,433	01/1996	Yeckley et al.	
		US- 4,575,449	03/1986	Lueth	
		US- 4,607,017	08/1986	Wolfe et al.	
		US- 4,609,633	09/1986	Fukuhara et al.	
		US- 4,632,910	12/1986	Lee et al.	
		US- 4,640,693	02/1987	Bhat et al.	
		US- 4,650,498	03/1987	Buljan	
		US- 4,652,276	03/1987	Burden	
		US- 4,670,024	06/1987	Bhat et al.	
		US- 4,711,644	12/1987	Yeckley et al.	
		US- 4,743,571	05/1988	Steinmann et al.	
		US- 4,745,022	05/1988	Miyake et al.	
		US- 4,769,350	09/1988	Nishioka et al.	
		US- 4,789,277	12/1988	Rhodes et al.	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>

Examiner Signature	Date Considered

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Sheet 3

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**Complete if Known**

Application Number	10/033,051
Filing Date	October 25, 2001
First Named Inventor	Mehrotra et al.
Art Unit	1731
Examiner Name	Fiorilla, C.A.

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*OCT 16 2003*  
**TC 1700**

Attorney Docket Number K-1436PD

U. S. PATENT DOCUMENTS				
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		Number-Kind Code <sup>2</sup> (if known)		Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US- 4,843,039	06/1989	Akesson et al.
		US- 4,848,984	07/1989	Ezis et al.
		US- 4,880,755	11/1989	Mehrotra
		US- 4,881,950	11/1989	Bhat et al.
		US- 4,892,792	01/1990	Sarin et al.
		US- 4,913,936	04/1990	Mehrotra et al.
		US- 4,946,630	08/1990	Ezis
		US- 4,959,331	09/1990	Mehrotra et al.
		US- 4,959,332	09/1990	Mehrotra et al.
		US- 4,960,735	10/1990	Mehrotra et al.
		US- 4,961,757	10/1990	Rhodes et al.
		US- 4,965,231	10/1990	Mehrotra et al.
		US- 5,024,976	06/1991	Mehrotra et al.
		US- 5,049,531	09/1991	Nakanishi et al.
		US- 5,079,198	01/1992	Edler et al.
		US- 5,110,770	05/1992	Brandt et al.
		US- 5,122,485	06/1992	Akimune
		US- 5,171,723	12/1992	Moriguchi et al.
		US- 5,198,165	03/1993	Akimune et al.

## FOREIGN PATENT DOCUMENTS

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		Country Code <sup>3</sup> "Number <sup>4</sup> "Kind Code <sup>5</sup> (if known)				
		DE 3938644	05/1990	NGK Spark Plug		
		DE 3939989	07/1990	NGK Spark Plug		
		DE 4000777	08/1990	NGK Spark Plug		
		EP 0107919	05/1984	British Cer. Re		
		EP 0298936	01/1989	Sandvik AB		
		EP 0497355	08/1992	NGK Spark Plug		

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Sheet 4

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Application Number	10/033,051	<b>RECEIVED</b>
Filing Date	October 25, 2001	
First Named Inventor	Mehrotra et al.	OCT 16 2003
Art Unit	1731	
Examiner Name	Fiorilla, C.A.	TC 1700
Attorney Docket Number	K-1436PD	

U. S. PATENT DOCUMENTS				
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		Number-Kind Code <sup>2</sup> ( <i>if known</i> )		
		US- 5,234,643	08/1993	Matsumoto
		US- 5,250,477	10/1993	Baldoni, II et al.
		US- 5,294,575	03/1994	Matsumoto
		US- 5,296,008	03/1994	Moriguchi et al.
		US- 5,308,561	05/1994	Leimer et al.
		US- 5,316,856	05/1994	Suzuki et al.
		US- 5,326,733	07/1994	Mizuno et al.
		US- 5,352,641	10/1994	Matsui et al.
		US- 5,370,716	12/1994	Mehrotra et al.
		US- 5,382,273	01/1995	Mehrotra et al.
		US- 5,384,081	01/1995	Wotting et al.
		US- 5,384,292	01/1995	Matsui et al.
		US- 5,405,592	04/1995	Edler et al.
		US- 5,411,923	05/1995	Suzuki et al.
		US- 5,424,256	06/1995	Yoshimura et al.
		US- 5,432,132	07/1995	Dasgupta et al.
		US- 5,439,855	08/1995	Rosenthal
		US- 5,445,776	08/1995	Honma et al.
		US- 5,449,649	09/1995	Li et al.

FOREIGN PATENT DOCUMENTS				
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		EP 0499861	08/1992	Sumitomo El. In
		EP 0589997	04/1994	AlliedSignal In
		EP 0615963	09/1994	Sumitomo el. In
		EP 0472256	08/1995	Dow Chemical Co
		JP 0354143	03/1991	Honda Engineer
		JP 3193666	08/1991	INAX, Inc.

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		US- 5,454,232	09/1995	Hida et al.
		US- 5,455,000	10/1995	Seyferth et al.
		US- 5,472,919	12/1995	Mitomo et al.
		US- 5,502,011	03/1996	Yamamoto et al.
		US- 5,525,134	06/1996	Mehrotra et al.
		US- 5,541,143	07/1996	Hirosaki et al.
		US- 5,545,362	08/1996	Hirosaki et al.
		US- 5,545,597	08/1996	Yeckley
		US- 5,571,760	11/1996	Pujari et al.
		US- 5,628,590	05/1997	Beeghly et al.
		US- RE35,538	06/1997	Akesson et al.
		US- 5,668,069	09/1997	Sato et al.
		US- 5,691,261	11/1997	Takahashi et al.
		US- 5,705,449	01/1998	Hirao et al.
		US- 5,720,917	02/1998	Matsuura et al.
		US- 5,759,481	06/1998	Pujari et al.
		US-		
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		US-		

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		WO 9718177	05/1997	Kennametal Inc.
		WO 9735817	10/1997	Sandvik AB
		JP4-136174 (full English translation)	05/1992	Mitsubishi

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Sheet

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**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		SIVASANKARAN et al., "Wear of Ceramic Tools in Machining Cast Iron", pp. 293-301 (no date)	
		BEEGHLY et al., "Application-Specialized Ceramics: A Silicon Nitride for Machining Gray Cast Iron", pp. 91-99; ASM Conference: Tool Materials, Scottsdale, AZ (Feb. 1987).	
		JANARDHANA REDDY et al., "Comparative Studies of Ceramic and Tungsten Carbide Tools for Machining Grey Cast Iron", pp. 161-171; Conference: Advanced Ceramics; India (March, 1990)	
		TENNENHOUSE et al., "Interaction of Silicon Nitride and Metal Surfaces", J. Am. Ceramic Soc. 68 (1) C30-C31 (1995 no month) AGRANOV et al., "Wear Behavior of Hot Pressed Silicon Nitride in Cutting of Cast Iron", Ind. Ceramics Vol. 8, No. 4 pp. 192-197 (1988 no month) BHOLA et al., "Ceramic Cutting Tool Inserts", Key Engineering Materials, vols. 122-124 (1996), pp. 235-246 (no month).	
		NISHIOKA et al., "Mechanical Properties of Si <sub>3</sub> N <sub>4</sub> Ceramics with ZrO <sub>2</sub> -addition under High Temperature and Observation of the Micro-Structure" (date unknown) FALK et al., "Microstructure and Short Term Oxidation of Hot-Pressed Si <sub>3</sub> N <sub>4</sub> /ZrO <sub>2</sub> (+Y <sub>2</sub> O <sub>3</sub> ) Ceramics", J. Am. Ceramic Soc. 75 (1) (1992) pp. 28-35 (no month)	

Examiner Signature	Date Considered
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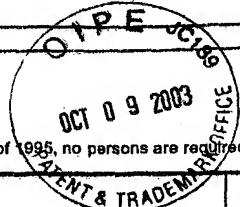
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## **NON PATENT LITERATURE DOCUMENTS**

<i><b>Complete If Known</b></i>	
<b>Application Number</b>	10/033,051
<b>Filing Date</b>	October 25, 20
<b>First Named Inventor</b>	Mehrotra et al
<b>Art Unit</b>	1731
<b>Examiner Name</b>	Fiorilla, C.A.
<b>Attorney Docket Number</b>	K-1436PD

<b>Examiner Signature</b>		<b>Date Considered</b>	
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